


IA-4 - Brave

lms.galgotiasuniversity.edu.in/mod/quiz/attempt.php?attempt=8908882&cmid=607567

 GALGOTIAS
UNIVERSITY
LMS

Linear Algebra and Differential Equations (BBS01T1003)

Question 1

Not yet answered

Marked out of 0.50

Flag question

The number of essential arbitrary constants in the general solution of a second order differential equations is:

Note: If your answer is 6, type 6

Answer:

Question 2

Not yet answered

Marked out of 0.50

Flag question

On solving non homogeneous ODE, when function is polynomial type. We put denominator term in binomial series form and then solve.

Select one:

☒ True

☐ False

Question 3

Not yet answered

Marked out of 0.50

Flag question

The solution of the differential equation $y' - 5y = 0$.

Select one:

☐ a. $e(-5x)$

☐ b. e^{-x}

☒ c. $e(5x)$

☐ d. $e(1x)$

[Clear my choice](#)

Quiz navigation

1

2

3

4

5

6

7

8


9

10

[Finish attempt...](#)

Time left: 0:11:25

37°C
Haze



10:55 AM

27-06-2022

in IA-4 - Brave

lms.galgotiasuniversity.edu.in/mod/quiz/attempt.php?attempt=8908882&cmid=607567

Question 4
Not yet answered
Marked out of 0.50
Flag question

In solving homogeneous ODE, when roots are equal, CF is-

Select one:

- ☒ a. $(c_1 + xc_2)e^{mx}$
- ☐ b. None of these
- ☐ c. $(c_1e^{m_1x} + c_2e^{m_2x})$
- ☐ d. $(c_1x + c_2x^2)e^{mx}$

[Clear my choice](#)

Question 5
Not yet answered
Marked out of 0.50
Flag question

A differential equation is called an ordinary differential equation if it has

Select one:

- ☐ a. more than two independent variables
- ☐ b. more than one independent variable
- ☒ c. only one independent variable
- ☐ d. only one dependent variable

[Clear my choice](#)

Question 6
Not yet answered
Marked out of 0.50
Flag question

Solution of $y'' - y = 0$ is $(c_1x + c_2)e^{x/2}$

Select one:

- ☐ True
- ☒ False

Question 7
Not yet answered
Marked out of 0.50

Number of arbitrary constants in solution of $y'' + y = x$ is---

Select one:

- ☐ a. 3

37°C Heat

10:55 AM 27-06-2022

in IA-4 - Brave

lms.galgotiasuniversity.edu.in/mod/quiz/attempt.php?attempt=8908882&cmid=607567

Question 7
Not yet answered
Marked out of 0.50
Flag question

Number of arbitrary constants in solution of $y''+y=x$ is---

Select one:

- ☐ a. 3
- ☐ b. 4
- ☐ c. 1
- ☒ d. 2

[Clear my choice](#)

Question 8
Not yet answered
Marked out of 0.50
Flag question

Solution of $y''=0$ is $\cos x + \sin x$

Select one:

- ☐ True
- ☒ False

Question 9
Not yet answered
Marked out of 0.50
Flag question

The necessary and sufficient condition for an first order ODE $Mdx+Ndy=0$ to be exact is $\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$

Select one:

- ☒ True
- ☐ False

Question 10
Not yet answered
Marked out of 0.50
Flag question

The dorder and degree of the differential equation is:

$$\frac{d^3y}{dx^3} + 3\left(\frac{dy}{dx}\right)^2 + y = e^x$$

Select one:

- ☐ a. 1,1
- ☐ b. 1,2

37°C
Haze

10:55 AM
27-06-2022

in IA-4 - Brave

lms.galgotiasuniversity.edu.in/mod/quiz/attempt.php?attempt=8908882&cmid=607567

GALGOTIAS UNIVERSITY LMS

Question 8
Not yet answered
Marked out of 0.50
Flag question

Solution of $y''=0$ is $\cos x + \sin x$

Select one:

☐ True

☒ False

Question 9
Not yet answered
Marked out of 0.50
Flag question

The necessary and sufficient condition for an first order ODE $Mdx + Ndy = 0$ to be exact is $\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$

Select one:

☒ True

☐ False

Question 10
Not yet answered
Marked out of 0.50
Flag question

The dorder and degree of the differential equation is:

$$\frac{d^4y}{dx^4} + 3\left(\frac{dy}{dx}\right)^2 + y = e^x$$

Select one:

☐ a. 1,1

☐ b. 1,2

☒ c. 2,1

☐ d. 2,2

[Clear my choice](#)

[Finish attempt ...](#)

Moodle Hosting by Vidya Mantra

37°C
Haze

10:55 AM
27-06-2022